

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

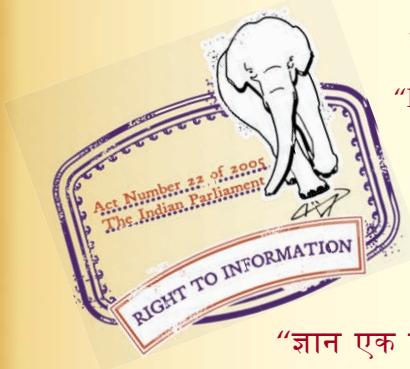
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 12271 (1988): Laproscopic Trocar and Cannula [MHD 3: Obstetric and Gynaecological Instruments and Appliances]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”
Bhartrhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

SPECIFICATION FOR LAPROSCOPIC TROCAR AND CANNULA

1. Scope — Specifies material, dimensions and other requirements for laproscopic trocar and cannula used in gynaecology.

2. Shape and Dimensions

2.1 The general shape and dimensions of laproscopic trocar and cannula shall be as shown in Fig. 1, 2, 3 and 4.

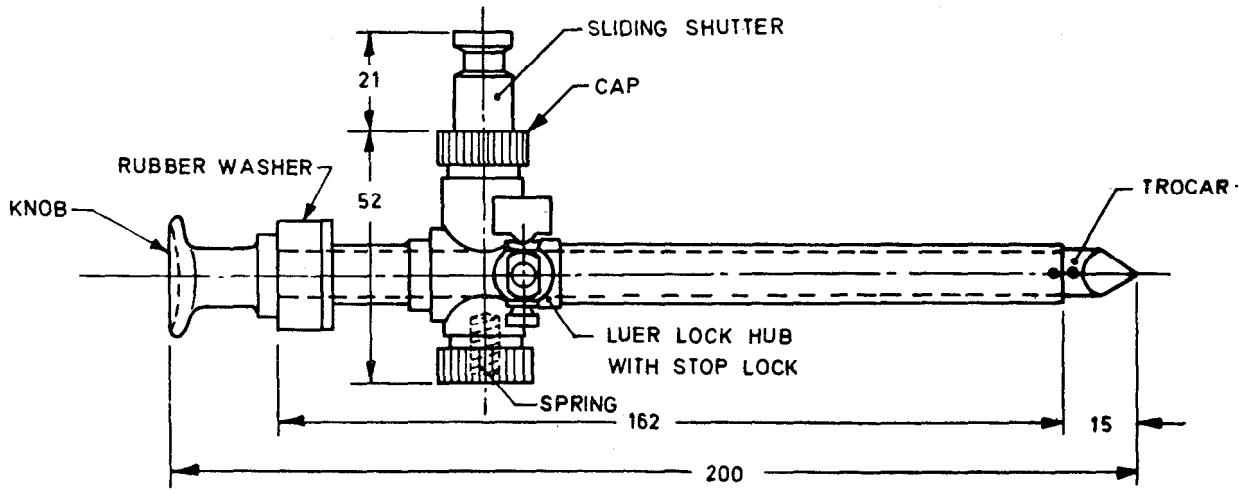


FIG. 1 LAPROSCOPIC TROCAR AND CANNULA, TROCAR SIZE 11 mm

2.1.1 Tolerances on dimensions shall be permitted as given below:

- ± 0.1 mm on dimensions up to 10.0 mm,
- ± 0.5 mm on dimensions above 10.0 mm and up to 25.0 mm,
- ± 1.0 mm on dimensions above 25.0 mm and up to 50.0 mm,
- ± 1.5 mm on dimensions above 50.0 mm and up to 100.0 mm, and
- ± 2.0 mm on dimensions above 100.0 mm.

3. Material — Trocar and cannula shall be made from stainless steel of Designation 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

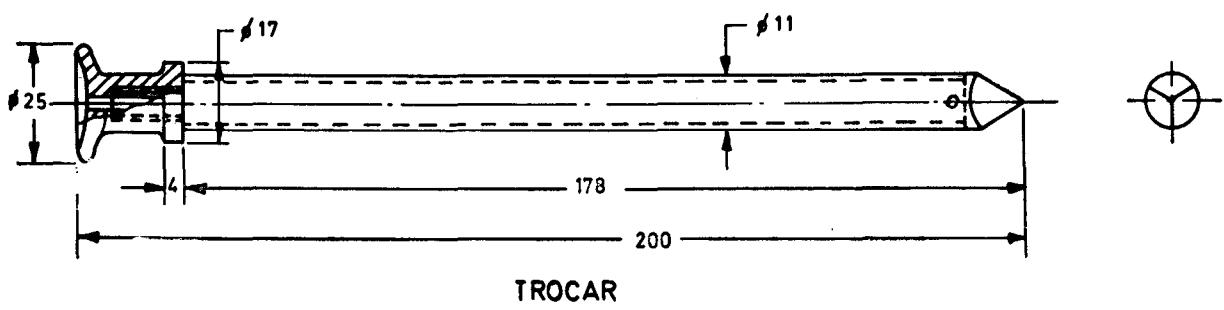
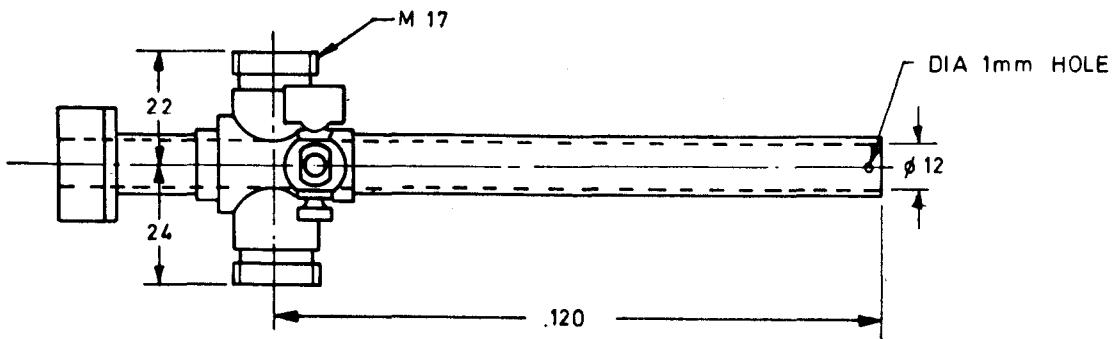
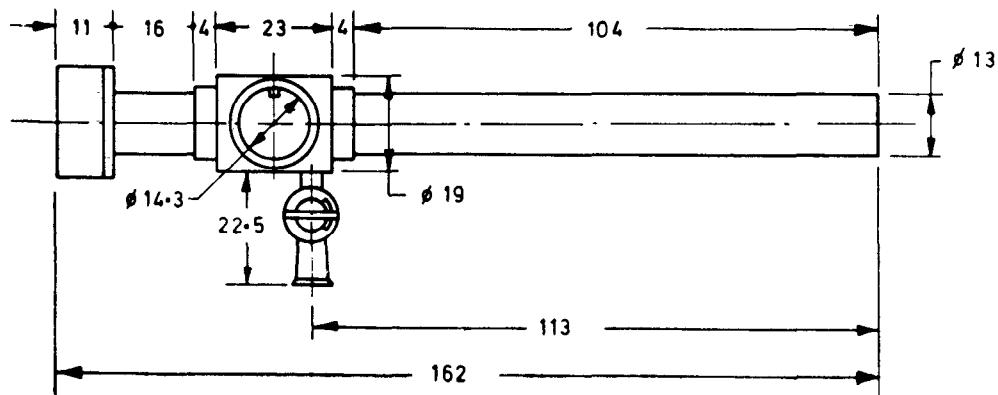
3.1 Other components shall also be made of stainless steel of the same grade except the knob, spring and sliding shutter which shall be of bakelite and brass, respectively.

4. Requirements

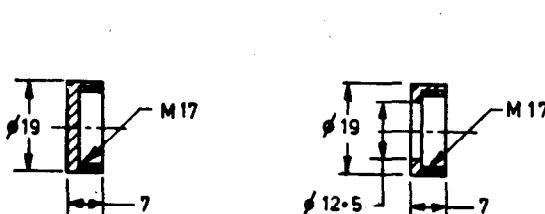
4.1 The trocar and cannula shall be free from pits, burrs, cracks, scales and other surface defects.

4.2 All edges shall be smoothly rounded off except the tip of the trocar which shall be triangular and sharp.

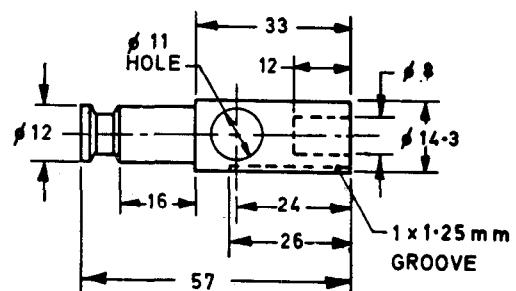
4.3 The sliding shutter shall work smoothly and shall block the passage of the trocar tube after trocar rod is taken out and the stud is released.



TROCAR



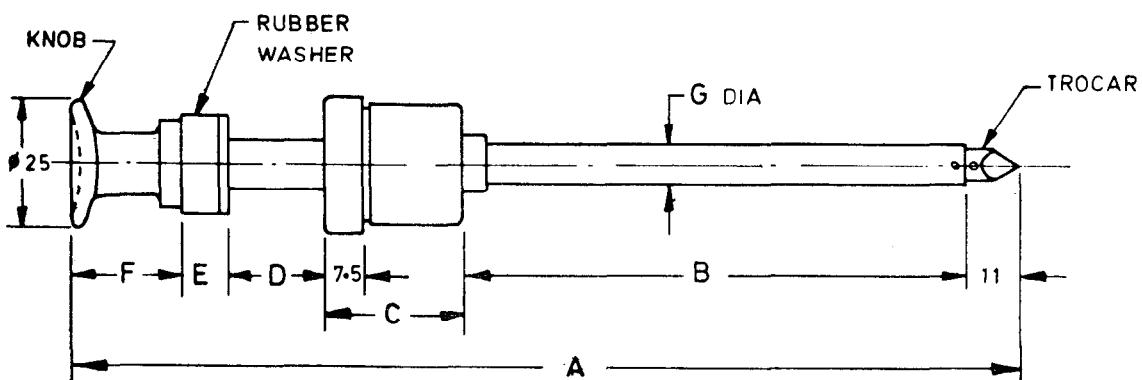
CAP



SLIDING SHUTTER

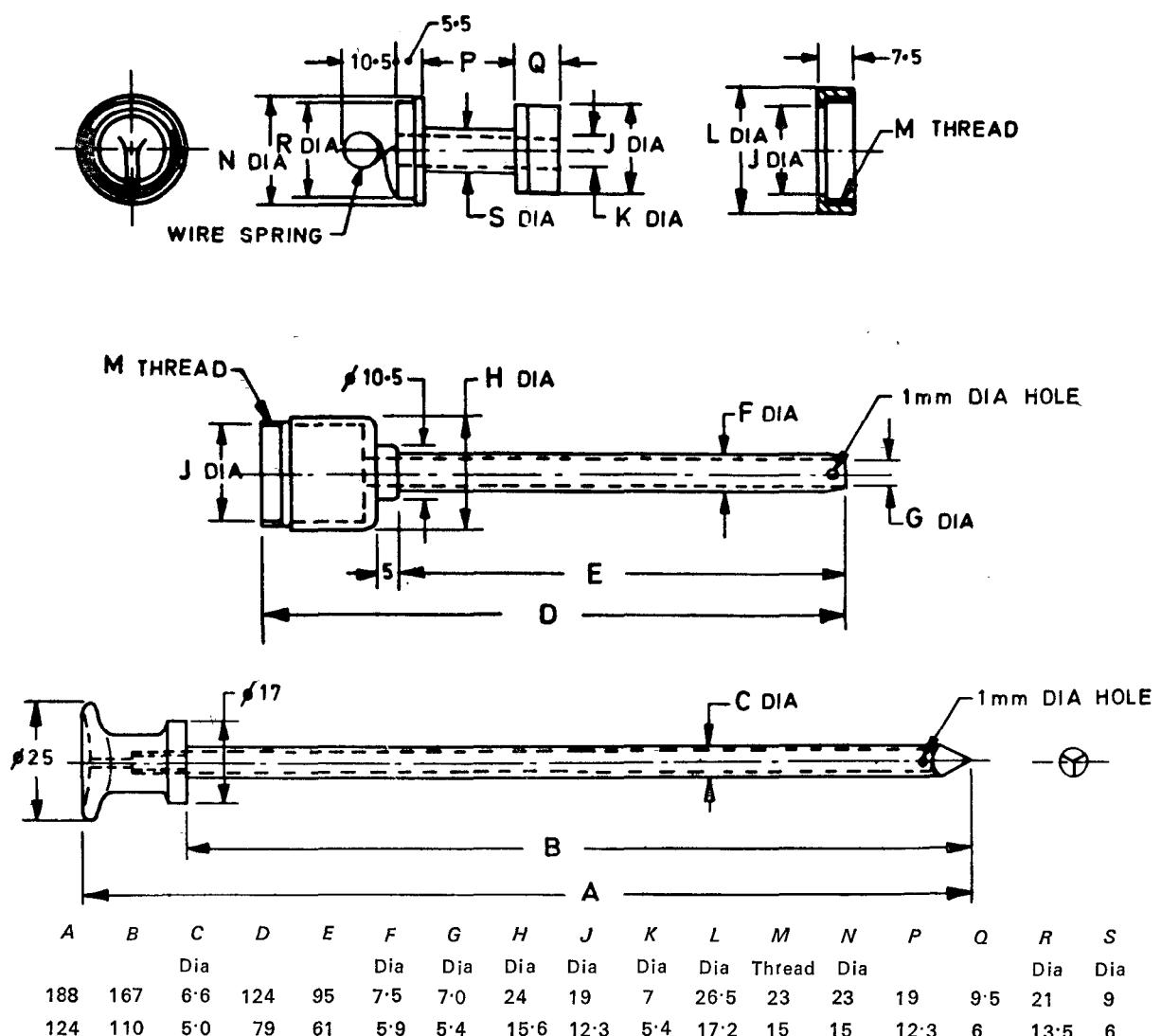
All dimensions in millimetres.

FIG. 2 DETAILED DIMENSIONS OF LAPROSCOPIC TROCAR AND CANNULA, TROCAR SIZE 11 mm



All dimensions in millimetres.

FIG. 3 LAPROSCOPIC TROCAR AND CANNULA, TROCAR SIZE 6.6 AND 5 mm



All dimensions in millimetres.

FIG. 4 DETAILED DIMENSIONS OF LAPROSCOPIC TROCAR AND CANNULA, TROCAR SIZE 6.6 AND 5 mm

4.4 The brass parts shall be plated chromium over nickel conforming to Service Grade No. 2 of IS : 4827-1983 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys (*first revision*)'.

4.5 The hub shall be of luer lock type and the opening and closing mechanism shall work smoothly and effectively.

4.6 The working end of the trocar shall be hardened and tempered to give a hardness of 400 to 460 HV.

5. Tests

5.1 Corrosion Resistance — The trocar and cannula after the removal of rubber, bakelite and brass components shall satisfy the boiling and autoclaving test as specified in IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

6. Marking

6.1 Both trocar and cannula shall be marked on the non-working surface with the manufacturer's name, initials or recognized trade-mark.

6.2 Standard Marking — Details available with the Bureau of Indian Standards.

7. Packing

7.1 Each trocar and cannula shall be wrapped in moisture-proof paper or packed in polyethylene bags. The trocar and cannula shall then be packed in individual cartons and shall be provided with general instructions for maintenance and handling of the instrument.

7.2 The trocar and cannula may also be packed as agreed to between the purchaser and the supplier.